LISTING OF CLAIMS:

This listing of claims will replace all prior versions of claims in the application:

 (Withdrawn) A method of forming high aspect ratio copper structures, comprising;

depositing a photoresist;

performing a reactive ion etch (RIE) process to form a trench;

depositing Cu;

performing single chemical mechanical polishing (CMP) process to remove selected amounts of said photoresist and Cu.

- (Withdrawn) A method as in claim 1 wherein said single CMP is performed using a sturry comprising; SiO₂ Ammonium Persulfate, and Benzotriazole (BTA).
- (Withdrawn) A method as in claim 1 further comprising depositing Al₂O₃.
- (Withdrawn) A method as in claim 1 further comprising depositing a SiO₂ hard
 mask, and wherein said CMP process removes said hard mask material at
 substantially the same rate as said photoresist, and Cu.
- (Withdrawn) A method as in claim 1 further comprising depositing a Ta barrier layer, and wherein said CMP process removes said Ta at substantially the same rate as said photoresist, and Cu.

- 6. (Cancelled)
- (Withdrawn) method as in claim 6, wherein said depositing Cu includes sputter depositing a seed layer of Cu and then electroplating Cu.
- (Previously presented)
 A-method-as in-claim-6 A method for forming a
 Cu coil for use in a magnetic head, comprising:

Forming a magnetic pole structure;

depositing a photoresist;

depositing a hard mask;

patterning said hard mask to define a coil pattern;

performing a material removal process to form at least one trench according to said coil pattern;

depositing Ta

depositing Cu; and

performing a chemical mechanical polishing (CMP) process using a slurry comprising:

Ammonium Persulfate, Benzotriazole (BTA), and SiO2; and

further comprising

adjusting a ratio of Ammonium Persulfate and Benzotriazole (BTA) so that said

CMP process removes material from said photoresist, hard mask, Ta, and

Cu at the same rate.

- (Withdrawn) A method as in claim 6 further comprising forming a magnetic
 pedestal and a magnetic back gap extending from said pole structure and wherein
 a portion of said photoresist is deposited between said magnetic pedestal and said
 magnetic back gap.
- (Withdrawn) A method as in claim 10, wherein said magnetic pedestal and said back gap comprise NiFe.
- (Withdrawn) A method as in claim 6, further comprising performing said CMP process sufficiently to form a substantially planar surface including said photoresist, and said Cu.
- (Withdrawn) A method as in claim 6 further comprising performing said CMP process sufficiently to form a substantially planar surface including said photoresist, said Cu and said Ta.
- (Withdrawn) A method as in claim 6, further comprising hard baking said photoresist before performing said material removal process.
- (Withdrawn) A method as in claim 6 wherein said material removal process comprises reactive ion etching (RIE).

- (Withdrawn) A method as in claim 6 further comprising depositing alumina (Al₂O₃).
- 16. (Withdrawn) A method as in claim 6 further comprising:

forming a magnetic pedestal and a magnetic back gap extending from said pole structure; and

depositing alumina (Al2O3) and wherein:

a portion of said photoresist is deposited between said magnetic pedestal and said magnetic back gap; and said material removal process removes said material from said magnetic pedestal, magnetic back gap, photoresist, hard mask, Ta, alumina and Cu at substantially the same rate.

 (Withdrawn) A slurry for use in chemical mechanical polishing, comprising: SiO₂;

Amonium Persulfate ((NH₄)₂S2O₈); and Benzotriazole BTA.

 (Withdrawn) A method of forming a small Cu structure, comprising: depositing a photoresist;
 performing a material removal process form a cavity in said photoresist;
 depositing Cu; and performing a chemical mechanical polishing process using a sturry comprising:

Si02 Ammonium Persulfate, and Benzotriazole (BTA).